

FIG. 1

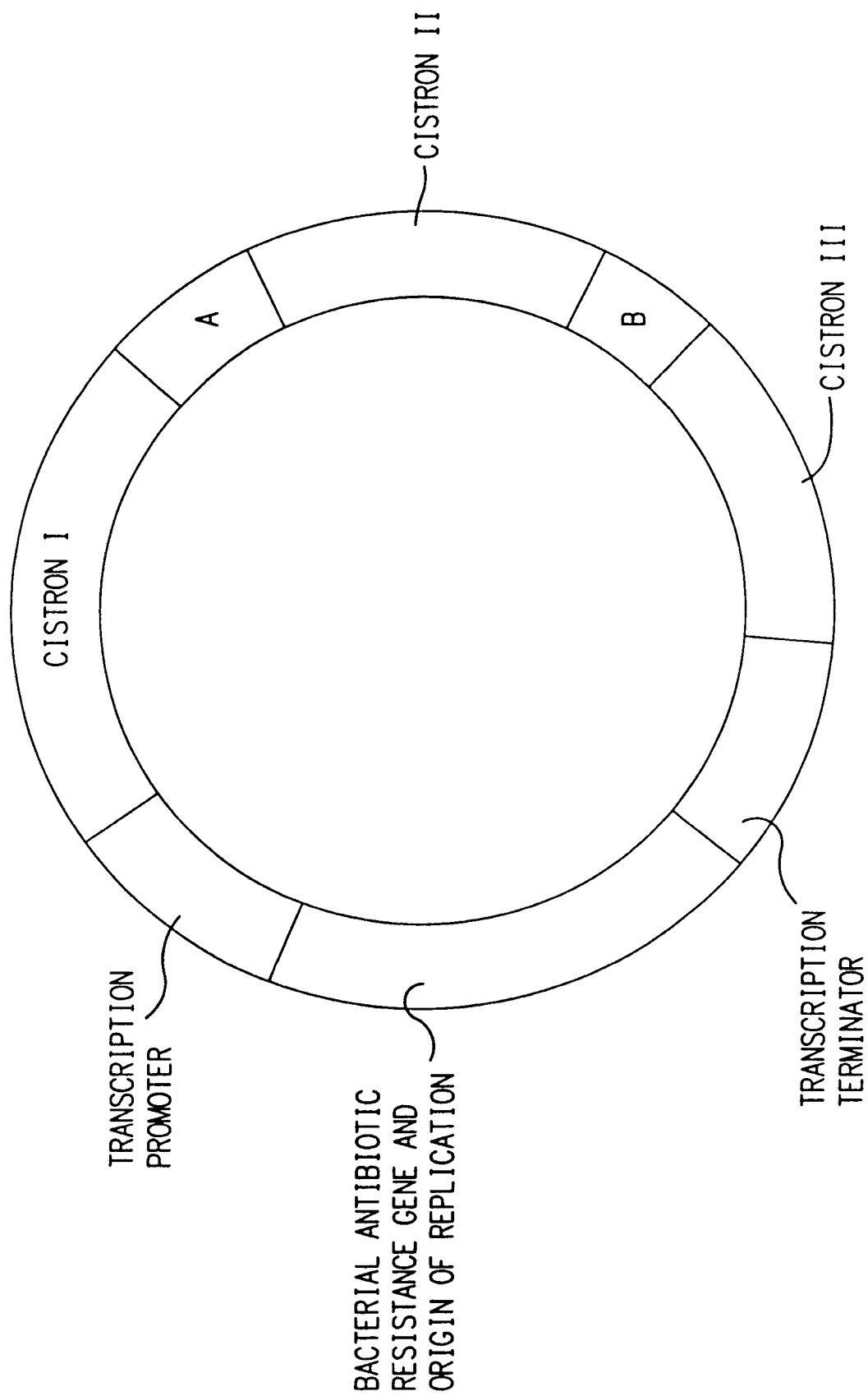


FIG.2

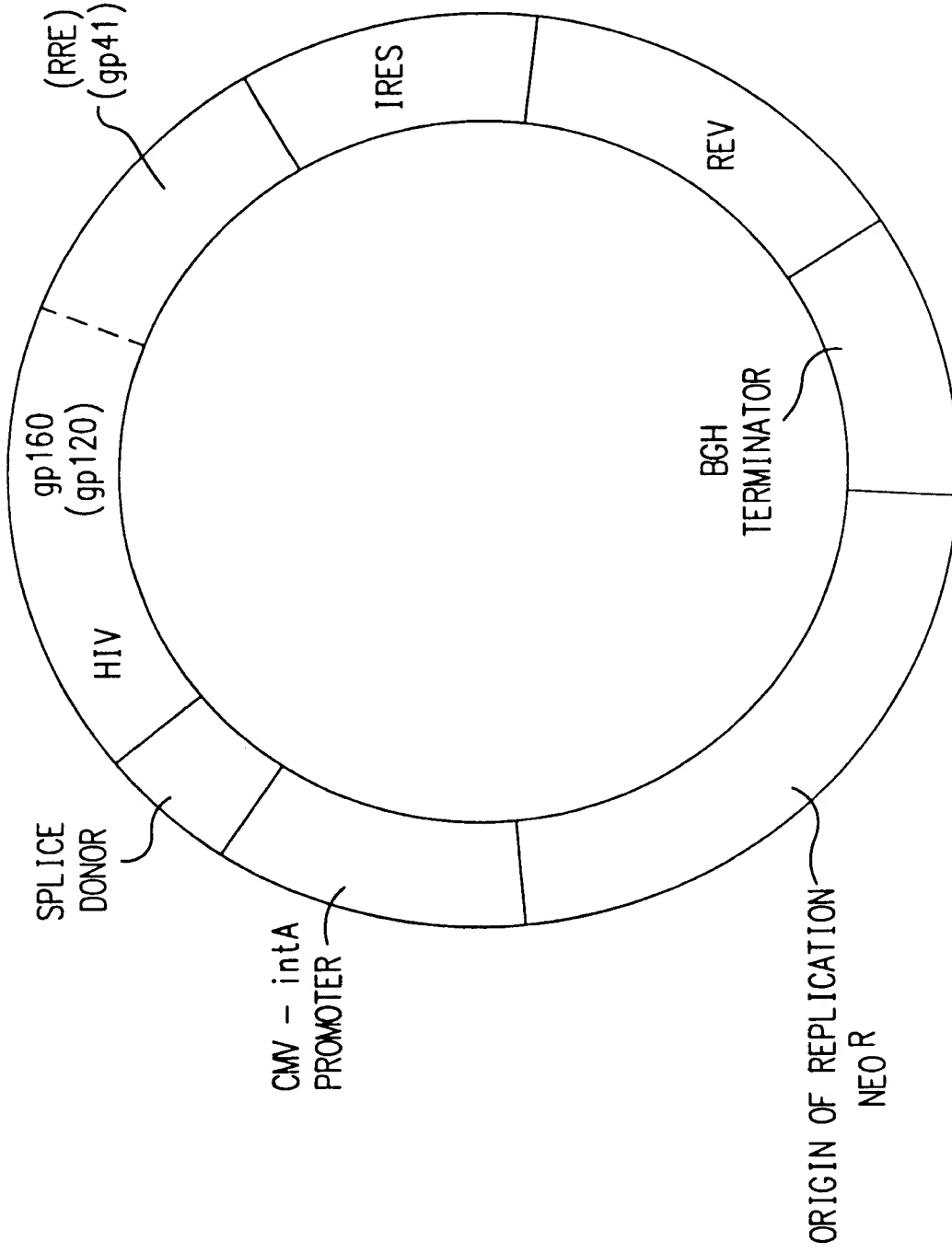
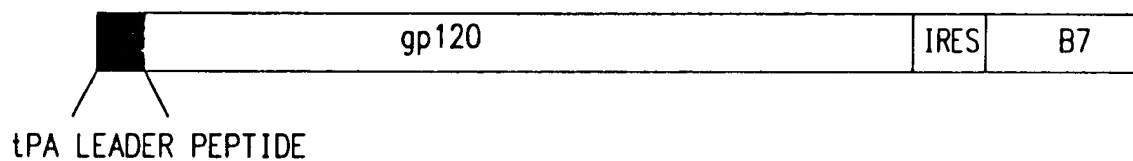
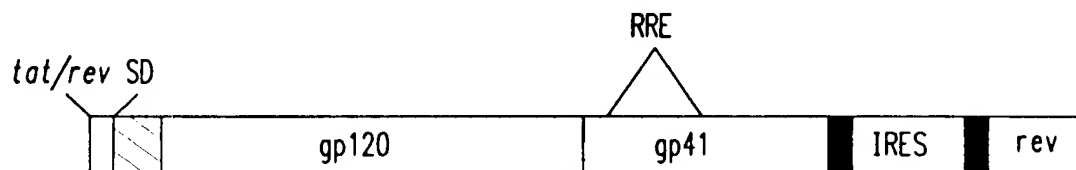


FIG.3

tPA-gp120 (V1Jns-tPA-gp120)



gp160/rev DICISTRONIC CONSTRUCT
(V1 Jns-gp160/IRES/rev/SD)



HIV gag/rev DICISTRONIC CONSTRUCT SCHEMATIC

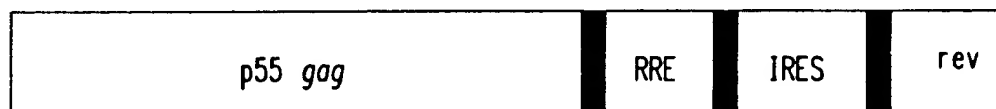


FIG.4

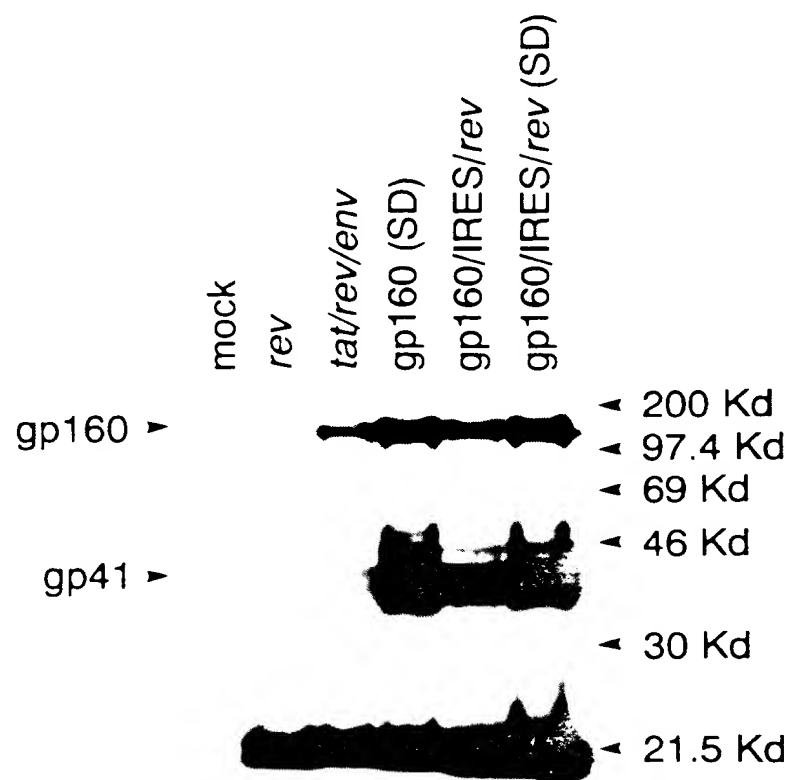


FIG.5A

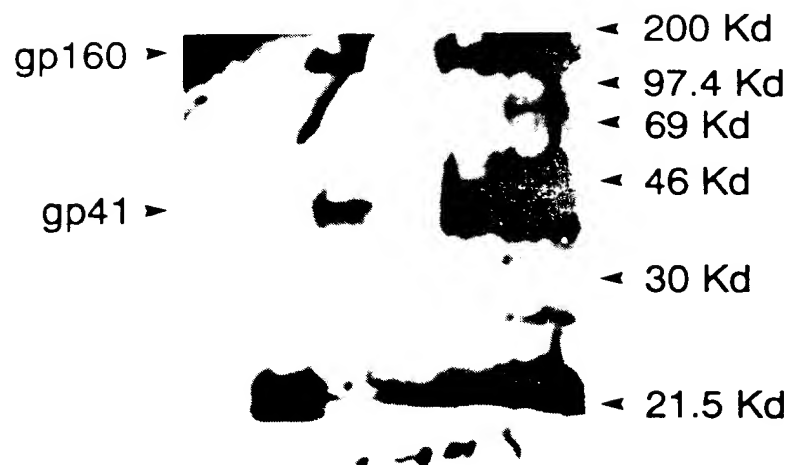


FIG.5B

1 TCGCGCGTTT CGGTGATGAC GGTGAAAACC TCTGACACAT GCAGCTCCCC
51 GAGACGGTCA CAGCTTGTCT GTAAGCGGAT GCCGGGAGCA GACAAGCCCC
101 TCAGGGCGCG TCAGCGGGTG TTGGCGGGTG TCGGGGCTGG CTTAACTATG
151 CGGCATCAGA GCAGATTGTA CTGAGAGTGC ACCATATCGG GTGTGAAATA
201 CCGCACAGAT CGGTAAGGAG AAAATACCGC ATCAGATTGG CTATTGGCCA
251 TTGCATACGT TGTATCCATA TCATAATATG TACATTATA TTGGCTCATG
301 TCCAACATTA CCGCCATGTT GACATTGATT ATTGACTAGT TATTAATAGT
351 AATCAATTAC GGGGTCATTA GTTCATAGCC CATATATGGA GTTCCGCGTT
401 ACATAACTTA CGGTAAATGG CCCGCCTGGC TGACCGCCCA ACGACCCCCG
451 CCCATTGACG TCAATAATGA CGTATGTTCC CATAGTAACG CCAATAGGGA
501 CTTTCCATTG ACGTCAATGG GTGGAGTATT TACGGTAAAC TGCCCACTTG
551 GCAGTACATC AAGTGATCA TATGCCAAGT ACGCCCCCTA TTGACGTCAA
601 TGACGGTAAA TGGCCCGCCT GGCATTATGC CCAGTACATG ACCTTATGGG
651 ACTTTCCTAC TTGGCAGTAC ATCTACGTAT TAGTCATCGC TATTACCATG
701 GTGATGCGGT TTTGGCAGTA CATCAATGGG CGTGGATAGC GGTTTGACTC
751 ACGGGGATT CCAAGTCTCC ACCCCATTGA CGTCAATGGG AGTTTGTTTT
801 GGCACCAAAA TCAACGGGAC TTTCCAAAAT GTCGTAACAA CTCCGCCCCA
851 TTGACGCAAA TGGCGGTAG GCGGTACGG TGGGAGGTCT ATATAAGCAG
901 AGCTCGTTTA GTGAACCGTC AGATCGCCTG GAGACGCCAT CCACGCTGTT
951 TTGACCTCCA TAGAAGACAC CGGGACCGAT CCAGCCTCCG CGGCCGGGAA

FIG.6A

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1001 CGGTGCATTG GAACGCGGAT TCCCCGTGCC AAGAGTGACG TAAGTACCGC
1051 CTATAGAGTC TATAGGCCCA CCCCCTTGGC TTCTTATGCA TGCTATACTG
1101 TTTTGGCTT GGGGTCTATA CACCCCCGCT TCCTCATGTT ATAGGTGATG
1151 GTATAGCTTA GCCTATAGGT GTGGGTATT GACCATTATT GACCACTCCC
1201 CTATTGGTGA CGATACTTTC CATTACTAAT CCATAACATG GCTCTTTGCC
1251 ACAACTCTCT TTATTGGCTA TATGCCAATA CACTGTCCTT CAGAGACTGA
1301 CACGGACTCT GTATTTTAC AGGATGGGGT CTCATTATT ATTTACAAAT
1351 TCACATATAC AACACCACCG TCCCAGTGC CCGCAGTTTT TATTAAACAT
1401 AACGTGGGAT CTCCACGCGA ATCTCGGGTA CGTGTTCGG ACATGGGCTC
1451 TTCTCCGGTA GCGGCGGAGC TTCTACATCC GAGCCCTGCT CCCATGCCCTC
1501 CAGCGACTCA TGGTCGCTCG GCAGCTCCTT GCTCCTAACA GTGGAGGCCA
1551 GACTTAGGCA CAGCAGATG CCCACCACCA CCAGTGTGCC GCACAAGGCC
1601 GTGGCGGTAG GGTATGTGTC TGAAAATGAG CTCGGGGAGC GGGCTTGCAC
1651 CGCTGACGCA TTTGAAGAC TTAAGGCAGC GGCAGAAGAA GATGCAGGCA
1701 GCTGAGTTGT TGTGTTCTGA TAAGAGTCAG AGGTAAGTCC CGTTGCCGTG
1751 CTGTTAACGG TGGAGGGCAG TGTAAGTCTGA GCAGTACTCG TTGCTGCCC
1801 GCGCGCCACC AGACATAATA GCTGACAGAC TAACAGACTG TTCCTTTCCA
1851 TGGGTCTTTT CTGCAGTCAC CGTCTTAG ATCTGCTGTG CCTTCTAGTT
1901 GCCAGCCATC TGTGTTTGC CCCTCCCCCG TGCCTTCCTT GACCTGGAA
1951 GGTGCCACTC CCACTGTCCT TTCCTAATAA AATGAGGAAA TTGCATCGCA

FIG.6B

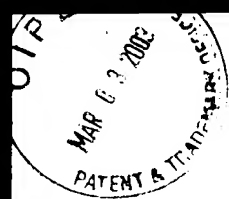
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2001 TTGCTGAGT AGGTGTCATT CTATTCTGGG GGGTGGGGTG GGGCAGCACA
2051 GCAAGGGGGA GGATTGGGAA GACAATAGCA GGCATGCTGG GGATGCGGTG
2101 GGCTCTATGG GTACCCAGGT GCTGAAGAAT TGACCCGGTT CCTCCTGGGC
2151 CAGAAAGAAG CAGGCACATC CCCTTCTCTG TGACACACCC TGTCACGGCC
2201 CCTGTTTCTT AGTTCACGCC CCACTCATAG GACACTCATA GCTCAGGAGG
2251 GCTCCGCCCTT CAATCCCACC CGCTAAAGTA CTGGAGCGG TCTCTCCCTC
2301 CCTCATCAGC CCACCAAACC AAACCTAGCC TCCAAGAGTG GGAAGAAATT
2351 AAAGCAAGAT AGGCTATTAA GTGCAGAGGG AGAGAAAATG CCTCCAACAT
2401 GTGAGGAAGT AATGAGAGAA ATCATAGAAT TTCTTCCGCT TCCTCGCTCA
2451 CTGACTCGCT GCGCTCGGTC GTTCGGCTGC GCGAGCGGT ATCAGCTCAC
2501 TCAAAGGCGG TAATACGGTT ATCCACAGAA TCAGGGGATA ACGCAGGAAA
2551 GAACATGTGA GCAAAAGGCC AGCAAAAGGC CAGGAACCGT AAAAAGGCCG
2601 CGTTGCTGGC GTTTTTCCAT AGGCTCCGCC CCCCTGACGA GCATCACAAA
2651 AATCGACGCT CAAGTCAGAG GTGGCGAAAC CCGACAGGAC TATAAGATA
2701 CCAGGCGTTT CCCCTGGAA GCTCCCTCGT GCGCTCTCCT GTTCGGACCC
2751 TGCCGCTTAC CGGATACCTG TCCGCCTTTC TCCCTTCGGG AAGCGTGGCG
2801 CTTTCTCAAT GCTCAGCTG TAGGTATCTC AGTTCGGTGT AGGTCGTTGG
2851 CTCCAAGCTG GGCTGTGTGC ACGAACCCCC CGTTCAGCCC GACCGCTGCG
2901 CCTTATCCGG TAACTATCGT CTGAGTCCA ACCCGGTAAG ACACCACTTA
2951 TCGCCACTGG CAGCAGCCAC TGGTAACAGG ATTAGCAGAG CGAGGTATGT

FIG.6C

3001 AGGCGGTGCT ACAGAGTTCT TGAAGTGGTG GCCTAACTAC GGCTACACTA
3051 GAAGGACAGT ATTTGGTATC TGGCTCTGC TGAAGCCAGT TACCTTCGA
3101 AAAAGAGTTG GTAGCTCTTG ATCCGGCAA CAAACCACCG CTGGTAGCGG
3151 TGGTTTTTTT GTTGCAAGC AGCAGATTAC GCGCAGAAAA AAAGGATCTC
3201 AAGAAGATCC TTTGATCTTT TCTACGGGT CTGACGCTCA GTGGAACGAA
3251 AACTCACGT AAGGGATTTT GGTGATGAGA TTATCAAAAA GGATCTTCAC
3301 CTAGATCCTT TTAAATTAAA AATGAAGTTT TAAATCAATC TAAAGTATAT
3351 ATGAGTAAAC TTGGTCTGAC AGTACCAAT GCTTAATCAG TGAGGCACCT
3401 ATCTCAGCGA TCTGTCTATT TCGTTCATCC ATAGTTGCCT GACTCCCCGT
3451 CGTGTAGATA ACTACGATAC GGGAGGGCTT ACCATCTGGC CCCAGTGGTG
3501 CAATGATACC GCGAGACCCA CGCTACCGG CTCCAGATTT ATCAGCAATA
3551 AACCAGCCAG CCGGAAGGGC CGAGCGCAGA AGTGGTCCTG CAACTTTATC
3601 CGCCTCCATC CAGTCTATTA ATTGTTGCCG GGAAGCTAGA GTAAGTAGTT
3651 CGCCAGTTAA TAGTTTGGC AACGTTGTG CCATTGCTAC AGGCATCGTG
3701 GTGTCACGCT CGTCGTTTGG TATGGCTTCA TTCAGCTCCG GTTCCAACG
3751 ATCAAGGCGA GTTACATGAT CCCCCATGTT GTGCAAAAAA GCGGTTAGCT
3801 CCTTCGGTCC TCCGATCGTT GTCAGAAGTA AGTTGGCCGC AGTGTTATCA
3851 CTCATGGTGA TGGCAGCACT GCATAATTCT CITACTGTCA TGCCATCCGT
3901 AAGATGCTTT TCTGTGACTG GTGAGTACTC AACCAAGTCA TTCTGAGAAT
3951 AGTGATCCG GCGACCGAGT TGCTCTTCCC CGGCGTCAAT ACGGGATAAT

FIG.6D



4001 ACCGCGCCAC ATAGCAGAAC TTAAAAAGTG CTCATCATTG GAAAACGTTG
4051 TTCGGGGCGA AAACCTCTCA GGATCTTACC GCTGTTGAGA TCCAGTTCGA
4101 TGTAACCCAC TCGTGCACCC AACTGATCTT CAGCATCTTT TACTTTACC
4151 AGCGTTTCTG GGTGAGCAAA AACAGGAAGG CAAAATGCCG CAAAAAAGG
4201 AATAAGGCGG ACACGGAAAT GTTGAATACT CATACTCTTC CTTTTTCAAT
4251 ATTATTGAAG CATTTATCAG GGTATTGTC TCATGAGCGG ATACATATTT
4301 GAATGTATTT AGAAAAATAA ACAAATAGGG GTTCCGCGCA CATTTCCTCC
4351 AAAAGTGCCA CCTGACCTCT AAGAAACCAT TATTATCATG ACATTAACCT
4401 ATAAAAATAG GCGTATCAGG AGGCCCTTTC GTC

FIG.6E



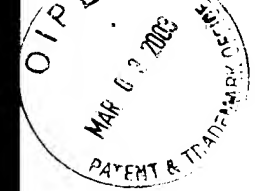
1 TCGCGCGTTT CGGTGATGAC GGTGAAAACC TCTGACACAT GCAGCTCCCG
51 GAGACGGTCA CAGCTTGTCT GTAAGCGGAT GCCGGGAGCA GACAAGCCCG
101 TCAGGGCGCG TCAGCGGGTG TTGGCGGGTG TCGGGGCTGG CTAACTATG
151 CGGCATCAGA GCAGATTGTA CTGAGAGTGC ACCATATCGG GTGTGAAATA
201 CCGCACAGAT CGGTAAGGAG AAAATACCGC ATCAGATTGG CTATTGCCA
251 TTGCATACGT TGTATCCATA TCATAATATG TACATTTATA TTGGCTCATG
301 TCCAACATTA CCGCCATGTT GACATTGATT ATTGACTAGT TATTAATAGT
351 AATCAATTAC GGGGTCATTA GTTCATAGCC CATATATGGA GTTCCGCGTT
401 ACATAACTTA CGGTAAATGG CCCGCCTGGC TGACCGCCCA ACGACCCCGG
451 CCCATTGACG TCAATAATGA CGTATGTTCC CATAGTAACG CCAATAGGGA
501 CTTTCCATTG ACGTCAATGG GTGGAGTATT TACGGTAAAC TGCCCACTTG
551 GCAGTACATC AAGTGTATCA TATGCCAAGT ACGCCCCCTA TTGACGTCAA
601 TGACGGTAAA TGGCCCGCCT GGCATTATGC CCAGTACATG ACCITATGGG
651 ACTTTCCTAC TTGGCAGTAC ATCTACGTAT TAGTCATCGC TATTACCATG
701 GTGATGCGGT TTTGGCAGTA CATCAATGGG CGTGGATAGC GGTTTGACTC
751 ACGGGGATTT CCAAGTCTCC ACCCCATTGA CGTCAATGGG AGTTTGTITT
801 GGCACCAAAA TCAACGGGAC TTTCCAAAAT GTCGTAACAA CTCCGCCCCA
851 TTGACGCAAA TGGGCGGTAG GCGGTGACGG TGGGAGGTCT ATATAAGCAG
901 AGCTCGTTTA GTGAACCGTC AGATCGCCTG GAGACCCCAT CCACGCTGTT
951 TTGACCTCCA TAGAAGACAC CGGGACCGAT CCAGCCTCCG CGGCCGGGAA

FIG.7A

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1001 CCGTGCAITG GAACGCGGAT TCCCCGTGCC AAGAGTGACG TAAGTACCGC
1051 CTATAGAGTC TATAGGCCCA CCCCCTTGGC TTCTTATGCA TGCTATACTG
1101 TTTTGGCTT GGGGTCTATA CACCCCGCT TCCTCATGTT ATAGGTGATG
1151 GTATAGCTTA GCCTATAGGT GTGGGTATT GACCATTATT GACCACTCCC
1201 CTATTGGTGA CGATACTTTC CATTACTAAT CCATAACATG GCTCTTTGCC
1251 ACAACTCTCT TTATTGGCTA TATGCCAATA CACTGTCCTT CAGAGACTGA
1301 CACGGACTCT GTATTTTAC AGGATGGGT CTCATTTATT ATTTACAAAT
1351 TCACATATAC AACACCACCG TCCCAGTGC CCGCAGTTTT TATTAAACAT
1401 AAGGTGGGAT CTCCACGCGA ATCTCGGTA CGTGTTCCGG ACATGGGCTC
1451 TTCTCCGTA GCGGCGGAGC TTCTACATCC GAGCCCTGCT CCCATGCCTC
1501 CAGCGACTCA TGGTCGCTCG GCAGCTCCTT GCTCCTAACA GTGGAGGCCA
1551 GACTTAGGCA CAGCACCATG CCCACCACCA CCAGTGTGCC GCACAAGGCC
1601 GTGGCGGTAG GGTATGTGTC TGAAAATGAG CTCGGGGAGC GGGCTTGAC
1651 CGCTGACGCA TTTGGAAGAC TTAAGGCAGC GGCAGAAGAA GATGCAGGCA
1701 GCTGAGTTGT TGTGTTCTGA TAAGAGTCAG AGGTAACTCC CGTTGCGGTG
1751 CTGTAAACGG TGGAGGGCAG TGTAGTCTGA GCAGTACTCG TTGCTGCCGC
1801 GCGGCCACC AGACATAATA GCTGACAGAC TAACAGACTG TTCCTTTCCA
1851 TGGGTCTTTT CTGCAGTCAC CGTCCTTAG ATCTGCTGTG CCTTCTAGTT
1901 GCCAGCCATC TGTGTTTGC CCCTCCCCCG TGCCITCCTT GACCCTGGAA
1951 GGTGCCACTC CCACTGTCCT TTCCTAATAA AATGAGGAAA TTGCATCGCA
2001 TTGCTGAGT AGGTGTCATT CTATTCTGGG GGGTGGGGTG GGGCAGCACA

FIG.7B



2051 GCAAGGGGA GGATTGGAA GACAATAGCA GGCATGCTGG GGATGCGTG
2101 GGCTCTATGG GTACCCAGGT GCTGAAGAAT TGACCCGGTT CCTCCTGGGC
2151 CAGAAAGAAG CAGGCACATC CCCTTCTCTG TGACACACCC TGTCACGCC
2201 CCTGGTTCTT AGTTCAGCC CCACTCATAG GACACTCATA GCTCAGGAG
2251 GCTCCGCTT CAATCCCACC CGCTAAAGTA CTTGGAGCGG TCCTCCCTC
2301 CCTCATCAGC CCACCAAACC AAACCTAGCC TCCAAGAGTG GGAAGAAAT
2351 AAAGCAAGAT AGGCTATTAA GTGCAGAGGG AGAGAAAATG CCTCCAACAT
2401 GTGAGGAAGT AATGAGAGAA ATCATAGAAT TTCTCCGCT TCCTCGCTCA
2451 CTGACTCGCT GCGCTCGGTC GTTCGGCTGC GCGAGCGGT ATCAGCTCAC
2501 TCAAAGGCGG TAATACGGTT ATCCACAGAA TCAGGGGATA ACGCAGGAAA
2551 GAACATGTGA GCAAAAGGCC AGCAAAAGGC CAGGAACCGT AAAAAGGCCG
2601 CGITGCTGGC GTTTTTCAT AGGCTCCGCC CCCCTGACGA GCATCACAAA
2651 AATCGACGCT CAAGTCAGAG GTGGCGAAAC CCGACAGGAC TATAAGATA
2701 CCAGGCGTTT CCCCCTGGAA GCTCCCTCGT GCGCTCTCCT GTTCGACCC
2751 TGCCGCTTAC CGGATACCTG TCCGCCTTTC TCCCTTCGGG AAGCGTGCG
2801 CTTTCTCAAT GCTCAGCTG TAGGTATCTC AGTTCGGTGT AGGTCGTTG
2851 CTCCAAGCTG GGCTGTGTGC ACGAACCCCC CGTTCAGCCC GACCGCTGCG
2901 CCTTATCCGG TAACTATCGT CTTGAGTCCA ACCCGTAAG ACACGACTTA
2951 TCGCCACTGG CAGCAGCCAC TGGTAACAGG ATTAGCAGAG CGAGGTATGT
3001 AGGCGGTGCT ACAGAGTTCT TGAAGTGGTG GCCTAACTAC GGCTACACTA
3051 GAAGGACAGT ATTTGGTATC TCGCTCTGC TGAAGCCAGT TACCTCGGA

FIG.7C

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3101 AAAAGAGTTG GTAGCTCTTG ATCCGGCAAA CAAACCACCG CTGGTAGCGG
3151 TGGTTTTTTT GTTTGCAAGC AGCAGATTAC GCGCAGAAAA AAAGGATCTC
3201 AAGAAGATCC TTTGATCTTT TCTACGGGGT CTGACGCTCA GTGGAACGAA
3251 AACTCACGTT AAGGGATTTT GGTCA TGAGA TTATCAAAAA GGATCTTCAC
3301 CTAGATCCTT TTAAATTAAA AATGAAGTTT TAAATCAATC TAAAGTATAT
3351 ATGAGTAAAC TTGGTCTGAC AGTTACCAAT GCTTAATCAG TGAGGCACCT
3401 ATCTCAGCGA TCTGTCTATT TCGTTCATCC ATAGTTGCCT GACTCCGGGG
3451 GGGGGGGGCG CTGAGGTCTG CCTCGTGAAG AAGGTGTTCG TGA CTACATAC
3501 CAGGCCTGAA TCGCCCCATC ATCCAGCCAG AAAGTGAGGG AGCCACGGTT
3551 GATGAGAGCT TTGTTGTAGG TGGACCAGTT GGTGATTTTG AACITTTGCT
3601 TTGCCACCGA ACGGTCTGCG TTGTCGGGAA GATGCGTGAT CTGATCCTTC
3651 AACTCAGCAA AAGTTCGATT TATTCAACAA AGCCGCCGTC CCGTCAAGTC
3701 AGCGTAATGC TCTGCCAGTG TTACAACCAA TTAACCAATT CTGATTAGAA
3751 AAATCATCG AGCATCAAAT GAAACTGCAA TTTATTGATA TCAGGATTAT
3801 CAATACCATA TTTTGA AAA AGCGTTTCT GTAATGAAGG AGAAAACTCA
3851 CCGAGGCAGT TCCATAGGAT GGCAAGATCC TGGTATCGGT CTGCGATTCC
3901 GACTCGTCCA ACATCAATAC AACCTATTAA TTTCCCTCG TCAAAAATAA
3951 GGTATCAAG TGAGAAATCA CCATGAGTGA CGACTGAATC CCGTGAGAAT
4001 GGCAAAAGCT TATGCATTTT TTTCCAGACT TGTTCAACAG GCCAGCCATT
4051 ACGCTCGTCA TCAAAATCAC TCGCATCAAC CAAACCGTTA TTCATTGCTG
4101 ATTGCGCCTG AGCGAGACGA AATACGGAT CGCTGT TAAA AGGACAATTA

FIG.7D

4151 CAAACAGGAA TCGAATGCAA CCGGCGCAGG AACACTGCCA GCGCATCAAC
4201 AATATTTTCA CCTGAATCAG GATATTCTTC TAATACCTGG AATGCTGTTT
4251 TCCCGGGGAT CGCAGTGGTG AGTAACCATG CATCATCAGG AGTACGGATA
4301 AAATGCTTGA TGGTCGGAAG AGGCATAAAT TCCGTCAGCC AGTTTAGTCT
4351 GACCATCTCA TCTGTAACAT CATTGGCAAC GCTACCTTTG CCATGTTTCA
4401 GAAACAACATC TGGCGCATCG GGCTTCCCAT ACAATCGATA GATTGTCCGA
4451 CCTGATTGCC CGACATTATC GCGAGCCCAT TTATACCCAT ATAAATCAGC
4501 ATCCATGTTG GAATTTAATC GCGGCCTCGA GCAAGACGTT TCCCGTTGAA
4551 TATGGCTCAT AACACCCCTT GTATTACTGT TTATGTAAGC AGACAGTTTT
4601 ATTGTTTCATG ATGATATATT TTTATCTTGT GCAATGTAAC ATCAGAGATT
4651 TTGAGACACA ACGTGGCTTT CCCCCCCCCC CCATTATTGA AGCATTTATC
4701 AGGGTTATTG TCTCATGAGC GGATACATAT TTGAATGTAT TTAGAAAAAT
4751 AAACAAATAG GGGTTCCGGC CACATTTCCC CGAAAAGTGC CACCTGACGT
4801 CTAAGAAACC ATTATTATCA TGACATTAAC CTATAAAAAT AGGCGTATCA
4851 CGAGGCCCTT TCGTC

FIG.7E

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1 ATTGGCTATT GGCCATTGCA TACGTTGTAT CCATATCATA ATATGTACAT
51 TTATATTGGC TCATGTCCAA CATTACCGCC ATGTTGACAT TCATTATTGA
101 CTAGTTATTA ATAGTAATCA ATTACGGGGT CATTAGTTCA TAGCCCATAT
151 ATGGAGTTCC GCGTTACATA ACTTACGGTA AATGGCCCGC CTGGCTGACC
201 GCCCAACGAC CCCC GCCCAT TGACGTCAAT AATGACGTAT GTCCCATAG
251 TAACGCCAAT AGGGACTTTC CATTGACGTC AATGGGTGGA GTATTTACGG
301 TAAACTGCCC ACTTGGCAGT ACATCAAGTG TATCATATGC CAAGTACGCC
351 CCCTATTGAC GTCAATGACG GTAAATGCCC CGCCTGGCAT TATGCCCAGT
401 ACATGACCTT ATGGGACTTT CCTACTTGGC AGTACATCTA CGTATTAGTC
451 ATCGCTATTA CCATGGTGAT GCGGTTTTGG CAGTACATCA ATGGGCGTGG
501 ATAGCGGTTT GACTCACGGG GATTTCCAAG TCTCCACCCC ATTGACGTCA
551 ATGGGAGTTT GTTTTGGCAC CAAAATCAAC GGGACTTTCC AAAATGTCTT
601 AACAACTCCG CCCCATTGAC GCAAATGGGC GGTAGGCGTG TACGGTGGGA
651 GGTCTATATA AGCAGAGCTC GTTTAGTGAA CCGTCAGATC GCCTGGAGAC
701 GCCATCCACG CTGTTTTGAC CTCCATAGAA GACACCGGGA CCGATCCAGC
751 CTCCGCGGCC GGGAACGGTG CATTGGAACG CGGATTCCCC GTGCCAAGAG
801 TGACGTAAGT ACCGCCTATA GAGTCTATAG GCCCACCCCC TTGGCTTCTT
851 ATGCATGCTA TACTGTTTTT GGCTTGGGGT CTATACACCC CCGCTTCCTC
901 ATGTTATAGG TGATGGTATA GCTTAGCCTA TAGGTGTGGG TTATTGACCA
951 TTATTGACCA CTCCCCTATT GGTGACGATA CTTTCATTA CTAATCCATA
1001 ACATGGCTCT TTGCCACAAC TCTCTTTATT GGCTATATGC CAATACACTG

FIG.8A



1051 TCCTTCAGAG ACTGACACGG ACTCTGTATT TTTACAGGAT GGGGTCTCAT
1101 TTATTATTTA CAAATTCACA TATACAACAC CACCGTCCCC AGTGCCCGCA
1151 GTTTTATTA AACATAACGT GGGATCTCCA CGCGAATCTC GGGTACGTGT
1201 TCCGGACATG GGCTCTTCTC CGGTAGCGGC GGAGCTTCTA CATCCGAGCC
1251 CTGCTCCCAT GCCTCCACGG ACTCATGGTC GCTCGGCAGC TCCTTGCTCC
1301 TAACAGTGGA GGCCAGACTT AGGCACAGCA CGATGCCAC CACCACCAGT
1351 GTGCCGACA AGGCCGTGGC GGTAGGTAT GTGTCTGAAA ATGAGCTCGG
1401 GGAGCGGGCT TGCACCGCTG ACGCATTTGG AAGACTTAAG GCAGCGGCAG
1451 AAGAAGATGC AGGCAGCTGA GTTGTGTGT TCTGATAAGA GTCAGAGGTA
1501 ACTCCCGTTG CGGTGCTGTT AACGGTGGAG GGCAGGTAG TCTGAGCAGT
1551 ACTCGTTGCT GCCGCGCGCG CCACCAGACA TAATAGCTGA CAGACTAACA
1601 GACTGTTCTT TTCCATGGGT CTTTCTGCA GTCACCGTCC TTAGATCTG
1651 CTGTGCCCTC TAGTGGCAG CCATCTGTTG TTTGCCCTC CCGGTGCTT
1701 TCCTTGACCC TGAAGGTGC CACTCCCACT GTCCTTCTT AATAAAATGA
1751 GGAAATTGCA TCGCATTGTC TGAGTAGGTG TCATTCTATT CTGGGGGGTG
1801 GGGTGGGGCA GCACAGCAAG GGGGAGGATT GGAAGACAA TAGCAGGCAT
1851 GCTGGGGATG CGGTGGGCTC TATGGGTACC CAGGTGCTGA AGAATTGACC
1901 CGGTTCTCTC TGGGCCAGAA AGAAGCAGGC ACATCCCTT CTCTGTGACA
1951 CACCTGTCC ACGCCCTGG TTCTTAGTTC CAGCCCCACT CATAGGACAC
2001 TCATAGCTCA GGAGGGCTCC GCCTTCAATC CCACCGCTA AAGTACTTGG
2051 AGCGGTCTCT CCTCCCTCA TCAGCCCACC AAACCAAACC TAGCCTCAA
2101 GAGTGGGAAG AAATTAAAGC AAGATAGGCT ATTAAGTGCA GAGGGAGAGA
2151 AAATGCCTCC AACATGTGAG GAAGTAATGA GAGAAATCAT AGAATTC

FIG.8B

FIG.9

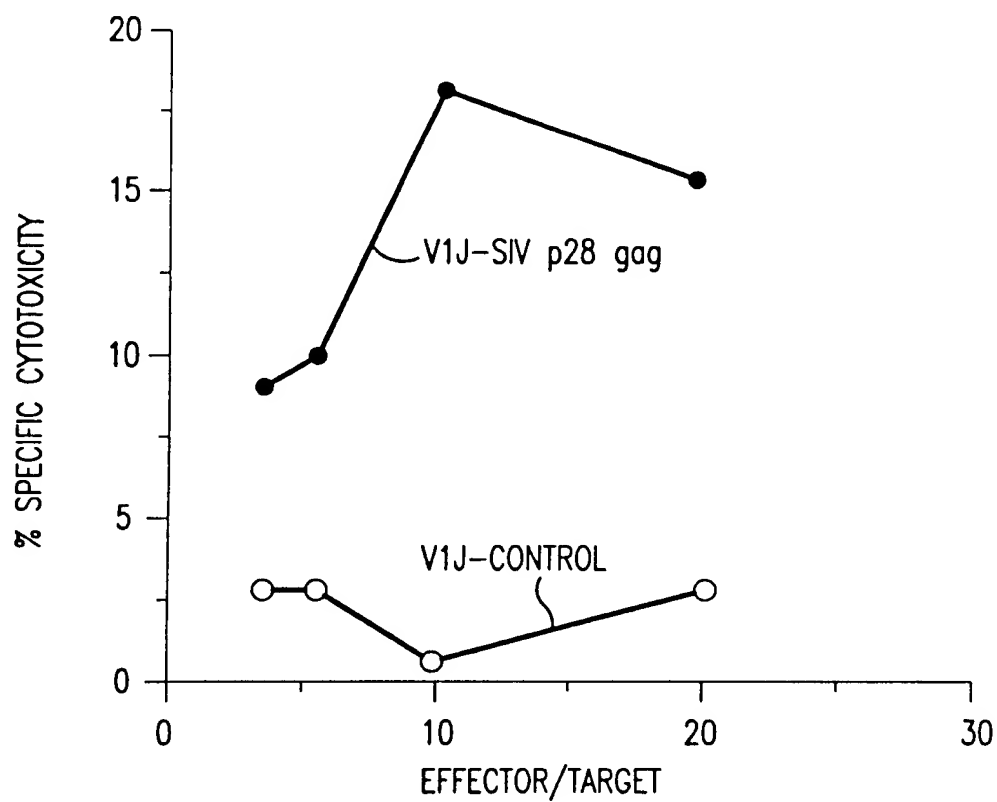
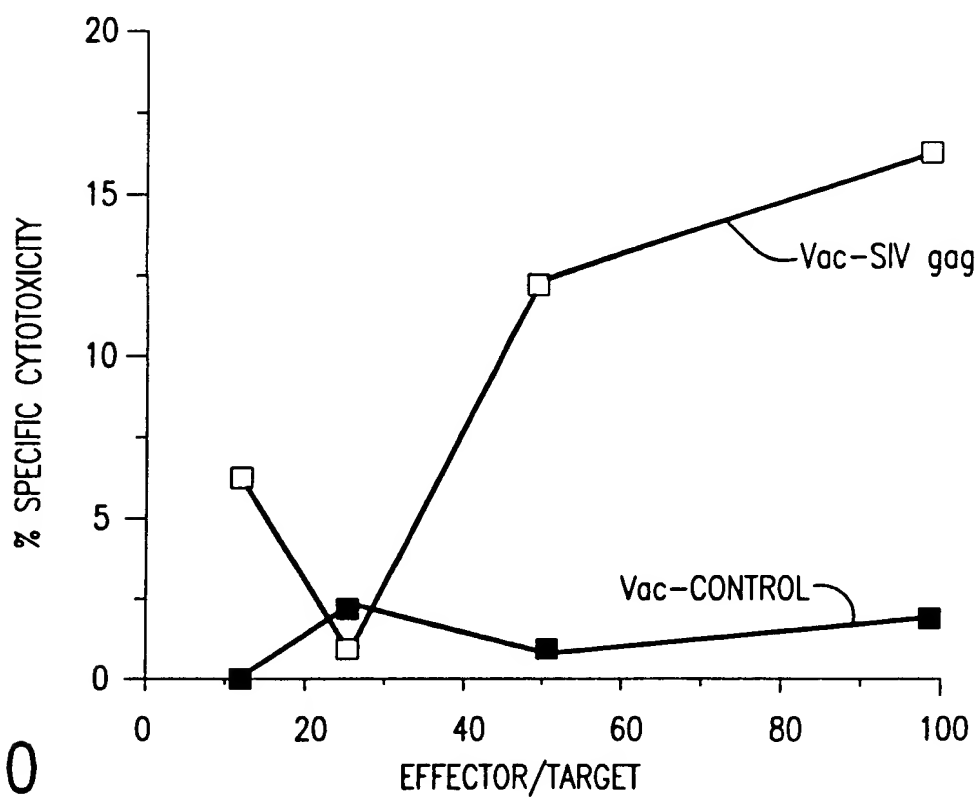


FIG.10



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1 GATATTGG CTATTGGCCA
251 TTGCATACGT TGTATCCATA TCATAATATG TACATTTATA TTGGCTCATG
301 TCCAACATTA CCGCCATGTT GACATTGATT ATTGACTAGT TATTAATAGT
351 AATCAATTAC GGGGTCATTA GTTCATAGCC CATATATGGA GTTCCGCGTT
401 ACATAACTTA CGGTAAATGG CCCGCCTGGC TGACCGCCCA ACCACCCCGG
451 CCCATTGACG TCAATAATGA CGTATGTTCC CATAGTAACG CCAATAGGGA
501 CTTTCCATTG ACGTCAATGG GTGGAGTATT TACGGTAAAC TGCCCACTTG
551 GCAGTACATC AAGTGTATCA TATGCCAAGT ACGCCCCCTA TTGACGTCAA
601 TGACGGTAAA TGGCCCGCCT GGCATTATGC CCAGTACATG ACCTTATGGG
651 ACTTTCCTAC TTGGCAGTAC ATCTACGTAT TAGTCATCGC TATTACCATG
701 GTGATGCGGT TTTGGCAGTA CATCAATGGG CGTGGATAGC GGTTTGACTC
751 ACGGGGATTT CCAAGTCTCC ACCCCATTGA CGTCAATGGG AGTTTGTTTT
801 GGCACCAAAA TCAACGGGAC TTTCCAAAAT GTCGTAACAA CTCGCCCCCA
851 TTGACGCAAA TGGGCGGTAG GCGTGTACGG TGGGAGGTCT ATATAAGCAG
901 AGCTCGTTTA GTGAACCGTC AGATCGCCTG GAGACGCCAT CCACCGCTGT
951 TTGACCTCCA TAGAAGACAC CGGGACCGAT CCAGCCTCCG CGGCCGGGAA
1001 CCGTGCAATTG GAACGCGGAT TCCCCGTGCC AAGAGTGACG TAAGTACCGC
1051 CTATAGAGTC TATAGGCCCA CCCCCTTGGC TTCTTATGCA TGCTATACTG
1101 TTTTGGCTT GGGGTCTATA CACCCCGCT TCCTCATGTT ATAGGTGATG
1151 GTATAGCTTA GCCTATAGGT GTGGGTATT GACCATTATT GACCACTCCC
1201 CTATTGGTGA CGATACTTTC CATTACTAAT CCATAACATG GCTCTTTGCC

FIG.11A

1251 ACAACTCTCT TTATTGGCTA TATGCCAATA CACTGTCCTT CAGAGACTGA
1301 CACGGACTCT GTATTTTAC AGGATGGGT CTCATTTATT ATTTACAAAT
1351 TCACATATAC AACACCACCG TCCCCAGTGC CCGCAGTTTT TATTAAACAT
1401 AACGTGGGAT CTCCACGCGA ATCTCGGTA CGTGTTCCGG ACATGGGCTC
1451 TTCTCCGTA GCGGCGGAGC TTCTACATCC GAGCCCTGCT CCCATGCCCTC
1501 CAGCGACTCA TGGTCGCTCG GCAGCTCCTT GCTCCTAACA GTGGAGGCCA
1551 GACTTAGGCA CAGCAGGATG CCCACCACCA CCAGTG TGCC GCACAAGGCC
1601 GTGGCGGTAG GGTATGTGTC TGAAAATGAG CTCGGGGAGC GGGCTTGAC
1651 CGCTGACGCA TTTGGAAGAC TTAAGGCAGC GGCAGAAGAA GATGCAGGCA
1701 GCTGAGTTGT TGTGTTCTGA TAAGAGTCAG AGGTA ACTCC CGTTGCGGTG
1751 CTGTTAACGG TGGAGGGCAG TGTAGTCTGA GCAGTACTCG TTGCTGCCCC
1801 GCGCGCCACC AGACATAATA GCTGACAGAC TAACAGACTG TTCCTTTCCA
1851 TGGTCTTTT CTGCAGTCAC CGTCCTTAG ATCTGCTGTG CCTTCTAGTT
1901 GCCAGCCATC TGTGTTTTC CCCTCCCCCG TGCCTTCCTT GACCCTGGAA
1951 GGTGCCACTC CCACTGTCTT TTCCTAATAA AATGAGGAAA TTGCATCGCA
2001 TTGTCTGAGT AGGTGTCATT CTATTCTGGG GGGTGGGTG GGGCAGCACA
2051 GCAAGGGGGA GGATTGGGAA GACAATAGCA GGCATGCTGG GGATGCGGTG
2101 GGCTCTATGG GTAC GGCCGCAGCGCC GTACCCAGGT GCTGAAGAAT
TGACCCGGTT CCTCGACCCGT AAAAAGGCCG
2601 CGTTGCTGGC GTTTTTCCAT AGGCTCCGCC CCCCTGACGA GCATCACAAA
2651 AATCGACGCT CAAGTCAGAG GTGGCGAAAC CCGACAGGAC TATAAGATA

FIG.11B



2701 CCAGGCGTTT CCCCTGGAA GCTCCCTCGT GCGCTCTCCT GTTCCGACCC
2751 TGCCGCTTAC CGGATACCTG TCCGCCTTTC TCCCTTCGGG AAGCGTGGCG
2801 CTTTCTCAAT GCTCAGCTG TAGGTATCTC AGTTCGGTGT AGGTCGTTCG
2851 CTCCAAGCTG GGCTGTGTGC ACGAACCCCG CGTTCAGCCC GACCGCTGCG
2901 CCTTATCCGG TAACTATCGT CTTGAGTCCA ACCCGGTAAG ACACGACTTA
2951 TCGCCACTGG CAGCAGCCAC TGGTAACAGG ATTAGCAGAG CGAGGTATGT
3001 AGGCGGTGCT ACAGAGTTCT TGAAGTGGTG GCCTAACTAC GGCTACACTA
3051 GAAGGACAGT ATTTGGTATC TCGCTCTGC TGAAGCCAGT TACCTTCGGA
3101 AAAAGAGTTG GTAGCTCTTG ATCCGGCAAA CAAACCACCG CTGGTAGCGG
3151 TGGTTTTTTT GTTTGCAAGC AGCAGATTAC GCGCAGAAAA AAAGGATCTC
3201 AAGAAGATCC TTTGATCTTT TCTACGTGATCC CGTAATGC TCTGCCAGTG
TTACAACCAA TTAACCAATT CTGATTAGAA
3751 AAATCATCG AGCATCAAAT GAAACTGCAA TTTATTCATA TCAGGATTAT
3801 CAATACCATA TTTTGTAAAA AGCCGTTTCT GTAATGAAGG AGAAAACTCA
3851 CCGAGGCAGT TCCATAGGAT GGCAAGATCC TGGTATCGGT CTGCCATTCC
3901 GACTCGTCCA ACATCAATAC AACCTATTAA TTTCCCTCG TCAAAAATAA
3951 GGTATCAAG TGAGAAATCA CCATGAGTGA CGACTGAATC CGGTGAGAAT
4001 GGCAAAAGCT TATGCATTTC TTTCCAGACT TGTTCACAG GCCAGCCATT
4051 ACGCTCGTCA TCAAAATCAC TCGCATCAAC CAAACCGTTA TTCATTGCTG
4101 ATTGCGCTG AGCGAGACGA AATACCGGAT CGCTGTAAA AGGACAATTA
4151 CAAACAGGAA TCGAATGCAA CCGGCGCAGG AACACTGCCA GCGCATCAAC

FIG.11C



4201 AATATTTTCA CCTGAATCAG GATATTCTTC TAATACCTGG AATGCTGTTT
4251 TCCCGGGGAT CGCAGTGGTG AGTAACCATG CATCATCAGG AGTACGGATA
4301 AAATGCTTGA TGGTCGGAAG AGGCATAAAT TCCGTCAGCC AGTTTACTCT
4351 GACCATCTCA TCTGTAACAT CATTGGCAAC GCTACCTTTG CCATGTTTCA
4401 GAAACAAC TC TGGCGCATCG GGCTTCCCAT ACAATCGATA GATTGTGCGA
4451 CCTGATTGCC CGACATTATC GCGAGCCCAT TTATACCCAT ATAAATCAGC
4501 ATCCATGTTG GAATTTAATC GCGGCCTCGA GCAAGACGTT TCCCGTTGAA
4551 TATGGCTCAT AACACCCCTT GTATTACTGT TTATGTAAGC AGACAGTTTT
4601 ATTGTTTCATG ATGATATATT TTTATCTTGT GCAATGTAAC ATCAGAGATT
4651 TTGAGACACA ACGTGGCTTT CC

FIG.11D

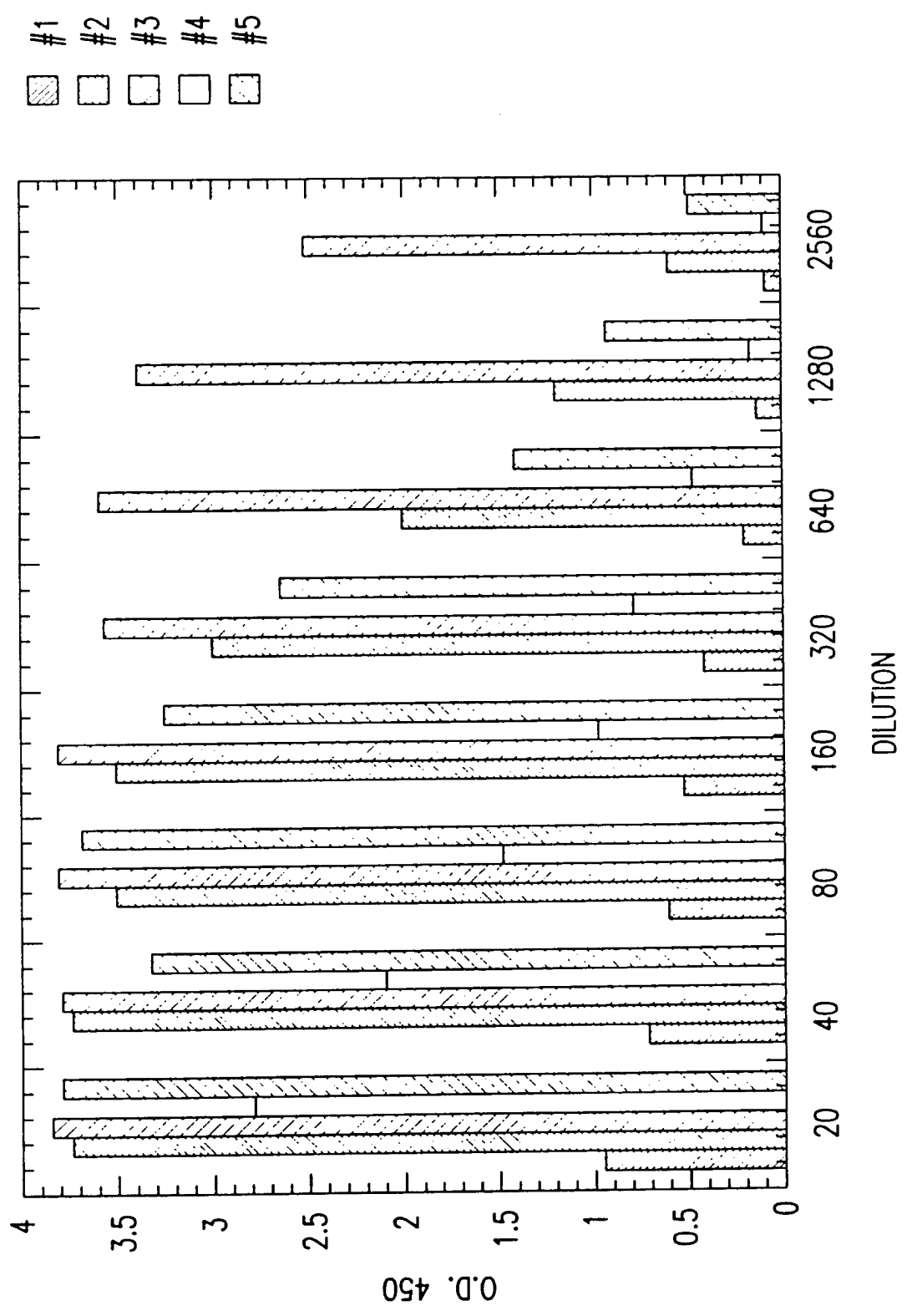


FIG.12

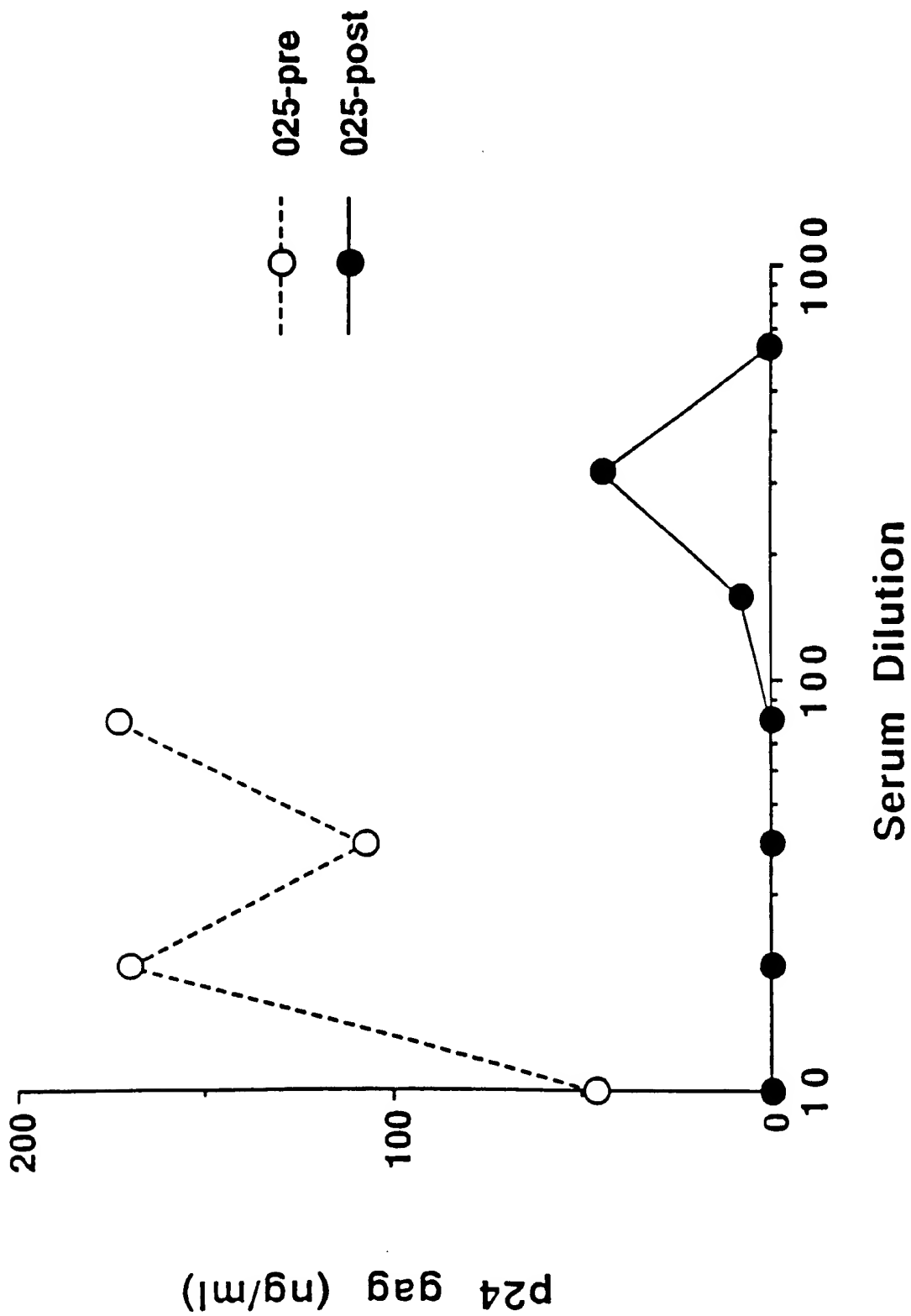


FIG. 13A

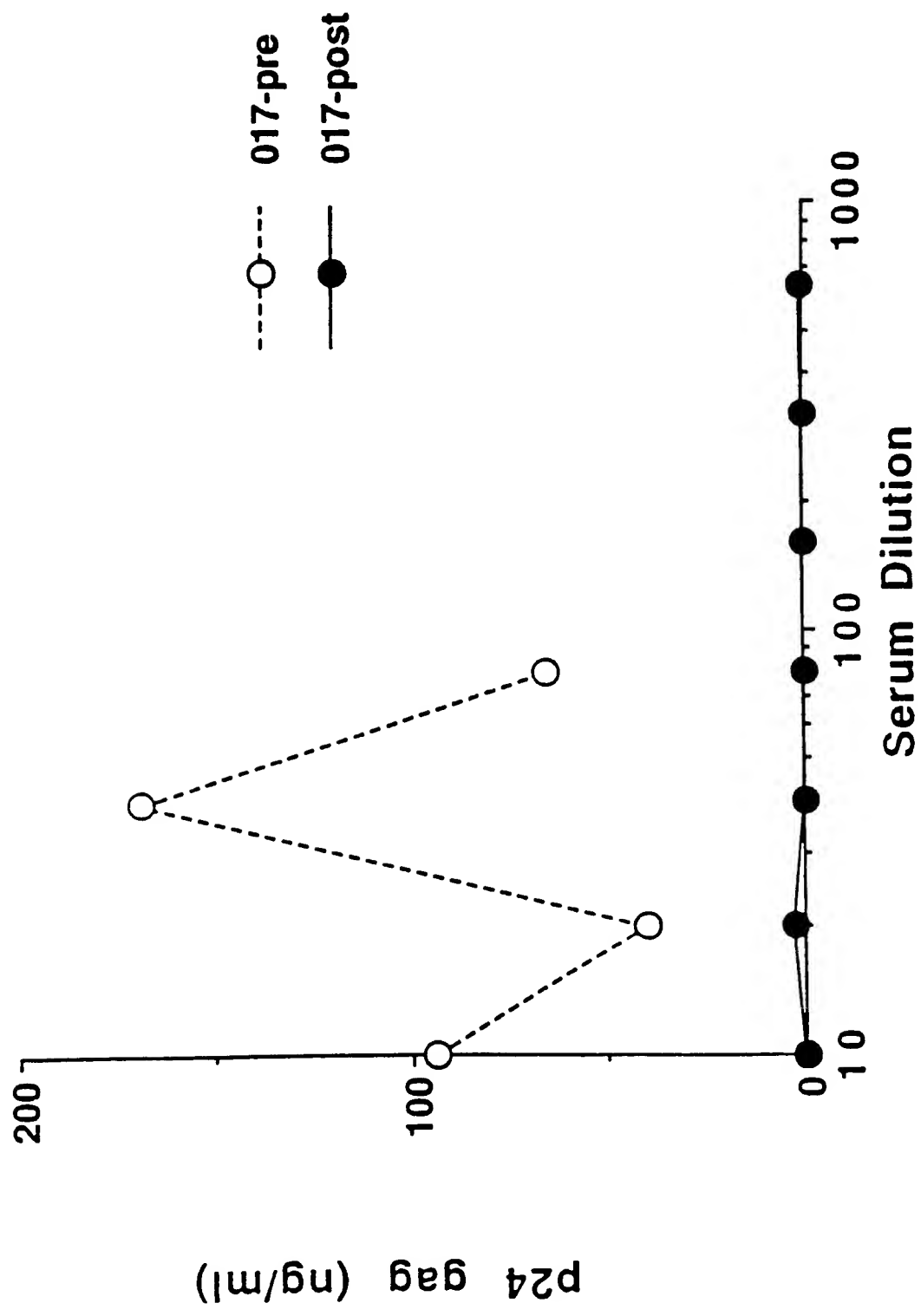


FIG. 13B

Stimulation Index

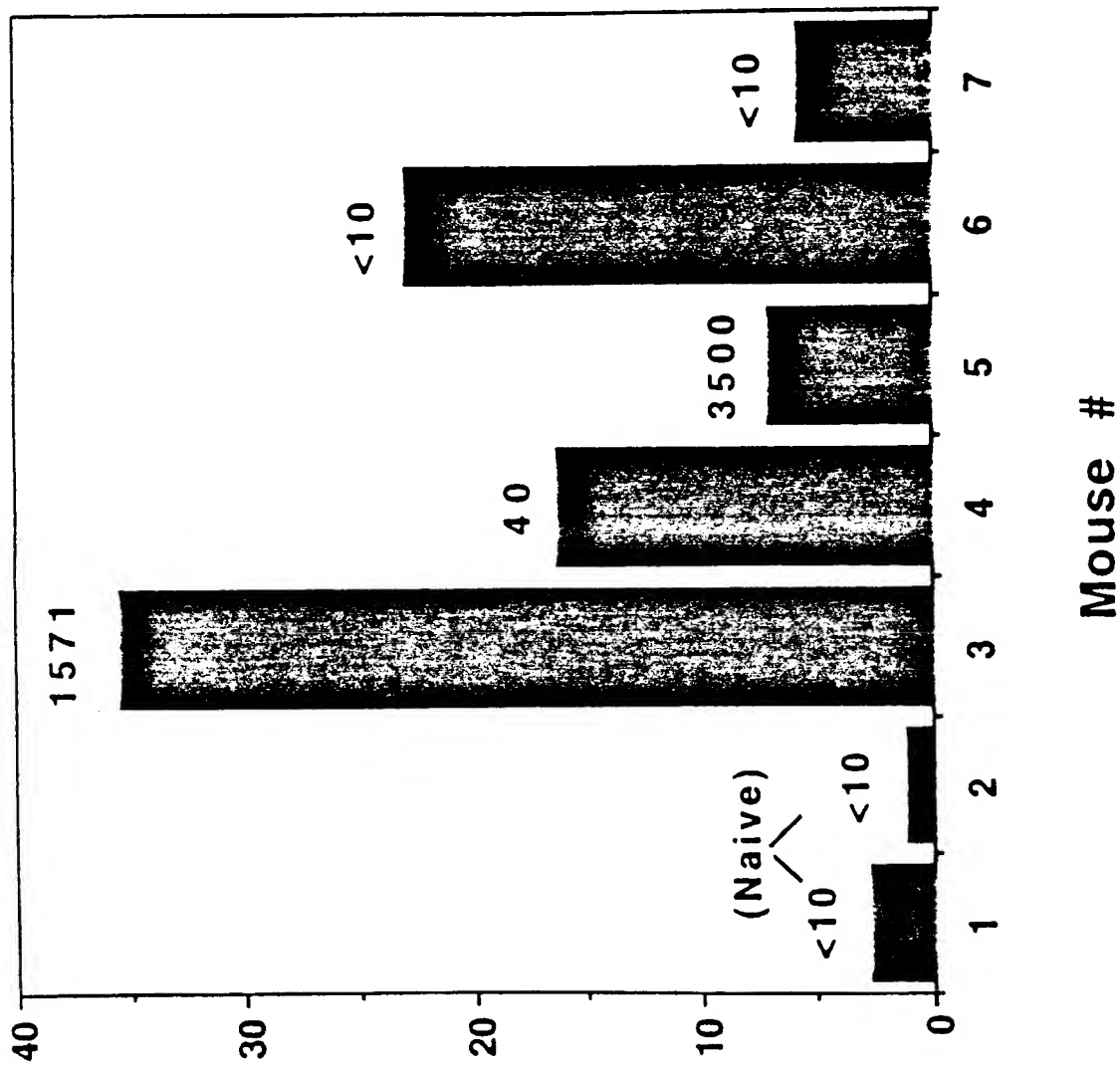


FIG. 14

Map 6.9.2001
PITCO 2 TRANSPIRANCE

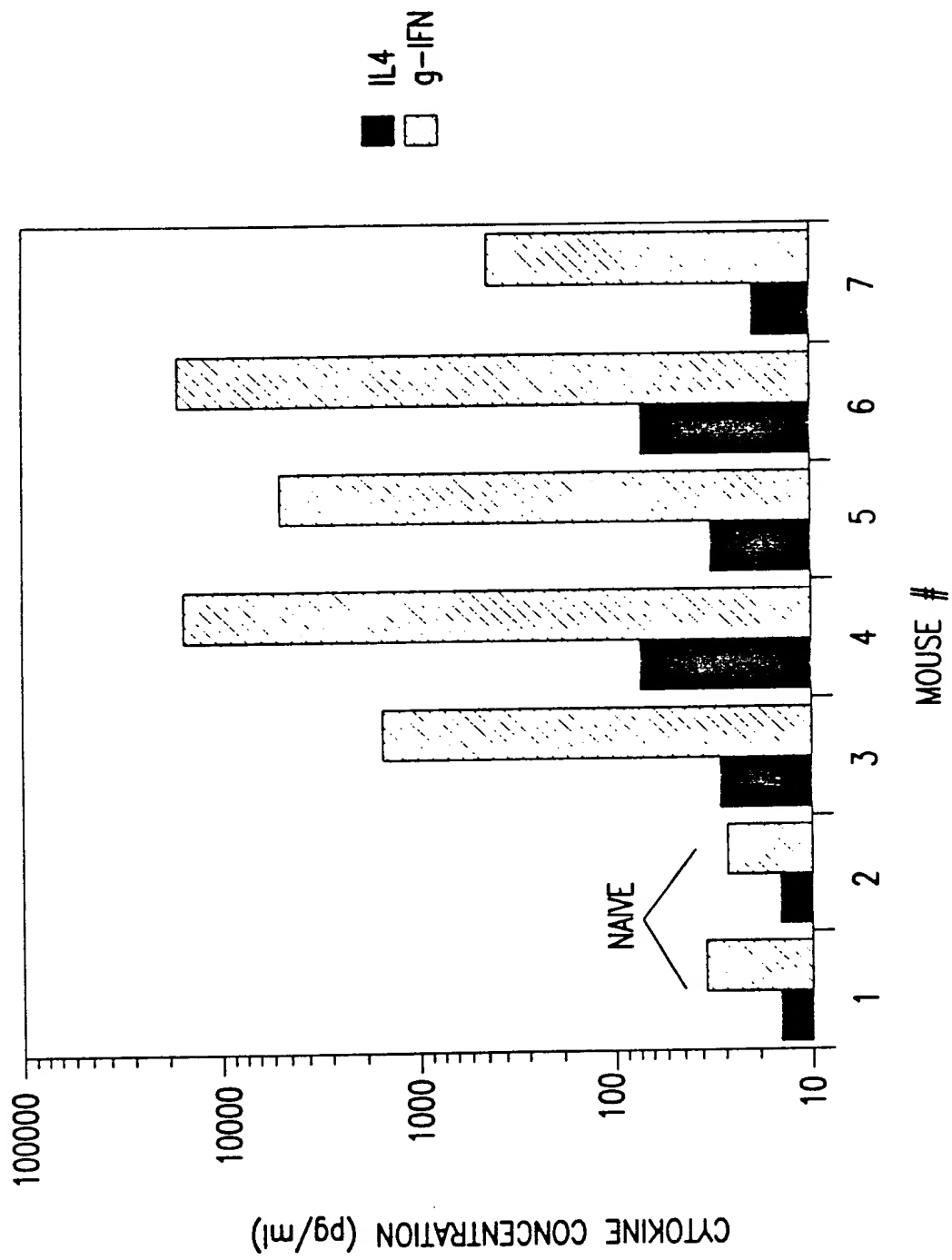
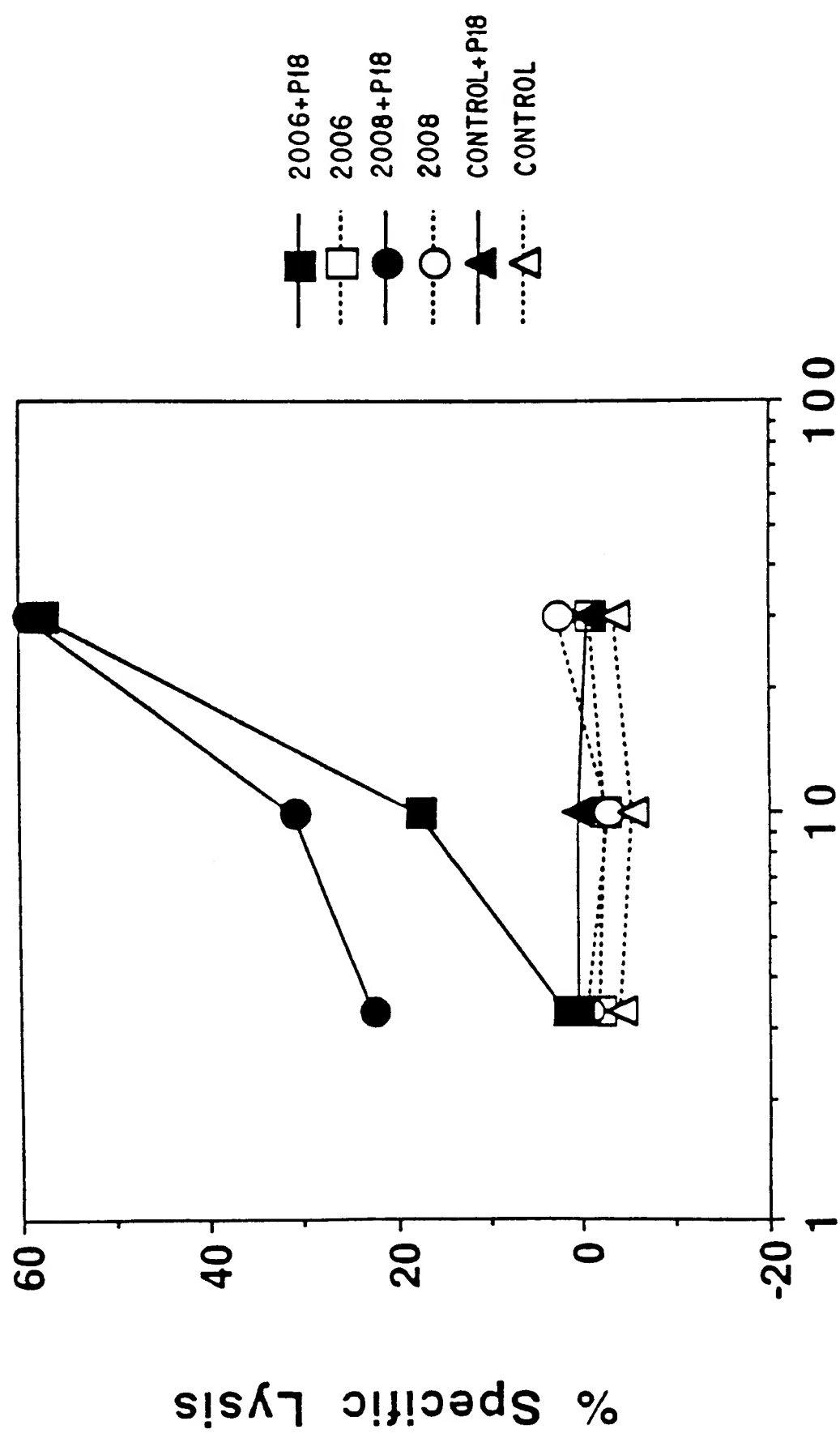


FIG. 15



E/T

FIG. 16

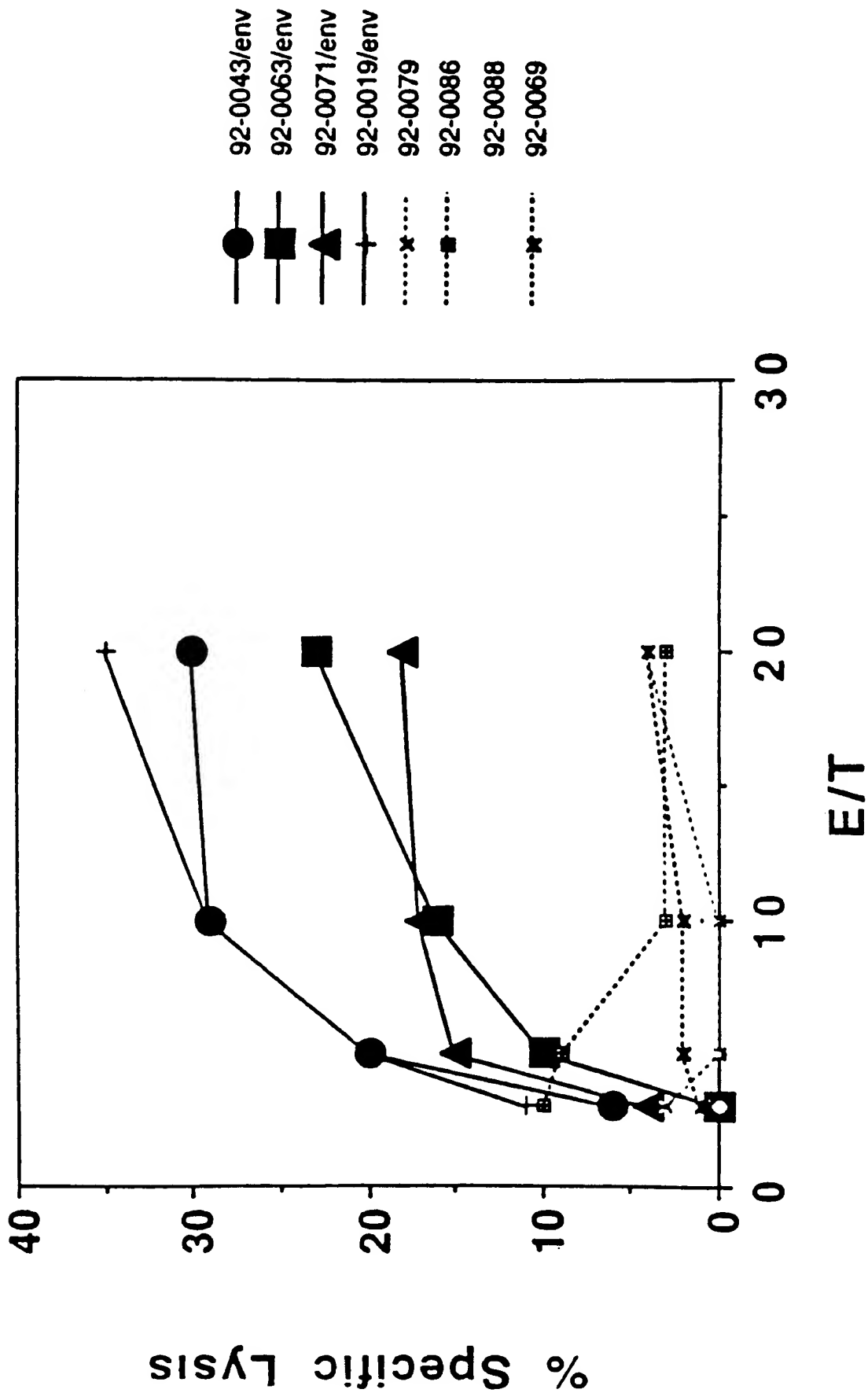


FIG. 17